

# H07Z-K / 07Z-K

halogen-free single core, finely stranded, bare wire



**CORPELIMA S.A.C.**  
Importadores y Líderes en Soluciones Eléctricas



## TECHNICAL DATA

Single core, H07Z-K acc. to DIN VDE 0285-525-3-41 / DIN EN 50525-3-41; 07Z-K in alignment with DIN VDE 0285-525-3-41 / DIN EN 50525-3-41

|                                                           |                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Temperature range</b>                                  | flexible -5°C to +90°C<br>fixed -40°C to +90°C                          |
| <b>Permissible operating temperature of the conductor</b> | +90°C                                                                   |
| <b>Nominal voltage</b>                                    | AC U <sub>0</sub> /U 450/750 V                                          |
| <b>Test voltage</b>                                       | 2500 V                                                                  |
| <b>Minimum bending radius</b>                             | fixed<br><8 mm: 4x Outer-ø<br>8-12 mm: 5x Outer-ø<br>>12 mm: 6x Outer-ø |

## CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Foil wrapping around conductor permissible
- Core insulation: cross-linked polyolefin acc. to DIN VDE 0207-363-5 / DIN EN 50363-5 (compound type EI5)
- Core identification: see table

## PROPERTIES

- resistant to: ozone
- halogen-free

- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## TESTS

- halogen-free acc. to DIN VDE 0285-525-1 / DIN EN 50525-1 appendix B
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403

## APPLICATION

For applications that require a low development of smoke and corrosive gases in case of fire. Installation in pipes on and under plaster or in similar enclosed systems. Suitable for protected, permanent laying in lighting installations or switch and control devices up to 1000V AC or 750V DC against earth.

## NOTES

- the conductor is metrically (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only
- Approved core colours: black, green-yellow, blue, brown, red, white, grey, violet, orange, pink

## H07Z-K

| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | black<br>Part no. | green-yellow<br>Part no. | blue<br>Part no. | brown<br>Part no. | red<br>Part no. | white<br>Part no. | grey<br>Part no. | violet<br>Part no. |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|-------------------|--------------------------|------------------|-------------------|-----------------|-------------------|------------------|--------------------|
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | 51768             | 51769                    | 51770            | 51771             | 51772           | 51773             | 51774            | 51775              |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | 51777             | 51778                    | 51779            | 51780             | 51781           | 51782             | 51783            | 51784              |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | 51786             | 51787                    | 51788            | 51789             | 51790           | 51791             | 51792            | 51793              |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | 51795             | 51796                    | 51797            | 51798             | 51799           | 51800             | 51801            | 51802              |
| 10                            | 5.7 - 7.1                  | 8               | 96.0               | 118.0                       | 51804             | 51805                    | 51806            | 51807             | 51808           | 51809             | 51810            | 51811              |
| 16                            | 6.7 - 8.4                  | 6               | 154.0              | 180.0                       | 51813             | 51814                    | 51815            | 51816             | 51817           | 51818             | 51819            | 51820              |
| 25                            | 8.4 - 10.6                 | 4               | 240.0              | 278.0                       | 51822             | 51823                    | 51824            | 51825             | 51826           | 51827             | 51828            | 51829              |
| 35                            | 9.7 - 12.1                 | 2               | 336.0              | 375.0                       | 51831             | 51832                    | 51833            | 51834             | 51835           | 51836             | 51837            | 51838              |
| 50                            | 11.5 - 14.4                | 1               | 480.0              | 560.0                       | 51840             | 51841                    | 51842            | 51843             | 51844           | 51845             | 51846            | 51847              |
| 70                            | 13.2 - 16.6                | 2/0             | 672.0              | 780.0                       | 51849             | 51850                    | 51851            | 51852             | 51853           | 51854             | 51855            | 51856              |
| 95                            | 15.1 - 18.8                | 3/0             | 912.0              | 952.0                       | 51858             | 51859                    | 51860            | 51861             | 51862           | 51863             | 51864            | 51865              |
| 120                           | 16.7 - 20.9                | 4/0             | 1152.0             | 1200.0                      | 51867             | 51868                    | 51869            | 51870             | 51871           | 51872             | 51873            | 51874              |
| 150                           | 18.6 - 23.3                | 300 kcmil       | 1440.0             | 1505.0                      | 51876             | 51877                    | 51878            | 51879             | 51880           | 51881             | 51882            | 51883              |
| 185                           | 20.6 - 25.8                | 350 kcmil       | 1776.0             | 1845.0                      | 51885             | 51886                    | 51887            | 51888             | 51889           | 51890             | 51891            | 51892              |
| 240                           | 23.5 - 29.4                | 500 kcmil       | 2304.0             | 2400.0                      | 51894             | 51895                    | 51896            | 51897             | 51898           | 51899             | 51900            | 51901              |

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| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | orange<br>Part no. | dark blue<br>Part no. | pink<br>Part no. | ultramarine<br>blue<br>Part no. |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|--------------------|-----------------------|------------------|---------------------------------|
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | 52952              | 52951                 | 52165            | 53074                           |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | 52954              | 52953                 | 52166            | 53075                           |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | 52956              | 52955                 | 52167            | 53076                           |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | 52958              | 52957                 | 52168            | 53077                           |
| 10                            | 5.7 - 7.1                  | 8               | 96.0               | 118.0                       | 52960              | 52959                 | 52169            | 53078                           |
| 16                            | 6.7 - 8.4                  | 6               | 154.0              | 180.0                       | 52962              | 52961                 | 52170            | 53079                           |
| 25                            | 8.4 - 10.6                 | 4               | 240.0              | 278.0                       | 52964              | 52963                 | 52171            | 53080                           |
| 35                            | 9.7 - 12.1                 | 2               | 336.0              | 375.0                       | 52966              | 52965                 | 52172            | 53081                           |
| 50                            | 11.5 - 14.4                | 1               | 480.0              | 560.0                       | 52968              | 52967                 | 52173            | 53082                           |
| 70                            | 13.2 - 16.6                | 2/0             | 672.0              | 780.0                       | 52970              | 52969                 | -                | 53083                           |
| 95                            | 15.1 - 18.8                | 3/0             | 912.0              | 952.0                       | 52972              | 52971                 | -                | 53084                           |
| 120                           | 16.7 - 20.9                | 4/0             | 1152.0             | 1200.0                      | 52974              | 52973                 | -                | 53085                           |
| 150                           | 18.6 - 23.3                | 300 kcmil       | 1440.0             | 1505.0                      | 52976              | 52975                 | -                | 53086                           |
| 185                           | 20.6 - 25.8                | 350 kcmil       | 1776.0             | 1845.0                      | 52978              | 52977                 | -                | 53087                           |
| 240                           | 23.5 - 29.4                | 500 kcmil       | 2304.0             | 2400.0                      | 52980              | 52979                 | -                | 53088                           |

## 07Z-K

| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | yellow<br>Part no. | green<br>Part no. | blue-white<br>Part no. | brown-white<br>Part no. | dark<br>blue-white<br>Part no. | red-white<br>Part no. |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|--------------------|-------------------|------------------------|-------------------------|--------------------------------|-----------------------|
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | 51776              | 52648             | 51405                  | 51406                   | 51407                          | 51404                 |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | 51785              | 52649             | 51409                  | 51410                   | 51411                          | 51408                 |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | 51794              | 52650             | 51413                  | 51414                   | 51415                          | 51412                 |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | 51803              | 52651             | 51417                  | 51418                   | 50899                          | 51416                 |
| 10                            | 5.7 - 7.1                  | 8               | 96.0               | 118.0                       | 51812              | 52652             | -                      | -                       | -                              | -                     |
| 16                            | 6.7 - 8.4                  | 6               | 154.0              | 180.0                       | 51821              | 52653             | -                      | -                       | -                              | -                     |
| 25                            | 8.4 - 10.6                 | 4               | 240.0              | 278.0                       | 51830              | 52654             | -                      | -                       | -                              | -                     |
| 35                            | 9.7 - 12.1                 | 2               | 336.0              | 375.0                       | 51839              | 52655             | -                      | -                       | -                              | -                     |
| 50                            | 11.5 - 14.4                | 1               | 480.0              | 560.0                       | 51848              | 52656             | -                      | -                       | -                              | -                     |
| 70                            | 13.2 - 16.6                | 2/0             | 672.0              | 780.0                       | 51857              | -                 | -                      | -                       | -                              | -                     |
| 95                            | 15.1 - 18.8                | 3/0             | 912.0              | 952.0                       | 51866              | -                 | -                      | -                       | -                              | -                     |
| 120                           | 16.7 - 20.9                | 4/0             | 1152.0             | 1200.0                      | 51875              | -                 | -                      | -                       | -                              | -                     |
| 150                           | 18.6 - 23.3                | 300 kcmil       | 1440.0             | 1505.0                      | 51884              | -                 | -                      | -                       | -                              | -                     |
| 185                           | 20.6 - 25.8                | 350 kcmil       | 1776.0             | 1845.0                      | 51893              | -                 | -                      | -                       | -                              | -                     |
| 240                           | 23.5 - 29.4                | 500 kcmil       | 2304.0             | 2400.0                      | 51902              | -                 | -                      | -                       | -                              | -                     |

## H07Z-K Barrel

| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | black<br>Part no. | green-yellow<br>Part no. | blue<br>Part no. | brown<br>Part no. | red<br>Part no. | white<br>Part no. | grey<br>Part no. | violet<br>Part no. |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|-------------------|--------------------------|------------------|-------------------|-----------------|-------------------|------------------|--------------------|
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | 52845             | 52846                    | 52847            | 52848             | 52849           | 52850             | 52851            | 52852              |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | 52857             | 52858                    | 52859            | 52860             | 52861           | 52862             | 52863            | 52864              |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | 52135             | 52136                    | 52137            | 52138             | 52139           | 52140             | 52141            | 52142              |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | 52145             | 52146                    | 52147            | 52148             | 52149           | 52150             | 52151            | 52152              |

| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | orange<br>Part no. | dark blue<br>Part no. |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|--------------------|-----------------------|
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | 52855              | 52853                 |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | 52867              | 52865                 |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | 52144              | 52143                 |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | 52154              | 52153                 |

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## 07Z-K Barrel

| Cross-sec.<br>mm <sup>2</sup> | Outer-ø<br>min - max<br>mm | AWG,<br>approx. | Cu-weight<br>kg/km | Weight<br>kg/km,<br>approx. | yellow       | green        | dark<br>blue-white |
|-------------------------------|----------------------------|-----------------|--------------------|-----------------------------|--------------|--------------|--------------------|
|                               |                            |                 |                    |                             | Part no.     | Part no.     | Part no.           |
| 1.5                           | 2.8 - 3.5                  | 16              | 14.4               | 24.0                        | <b>52158</b> | <b>52660</b> | <b>11008910</b>    |
| 2.5                           | 3.4 - 4.3                  | 14              | 24.0               | 35.0                        | <b>52159</b> | <b>52661</b> | <b>11008911</b>    |
| 4                             | 3.9 - 4.9                  | 12              | 38.0               | 51.0                        | <b>52160</b> | <b>52662</b> | <b>11008912</b>    |
| 6                             | 4.4 - 5.5                  | 10              | 58.0               | 71.0                        | <b>52161</b> | <b>52663</b> | <b>11008913</b>    |

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